

ABSTRACT

A balanced splitter (21) has $1/4$ strip lines (31, 32, 33, 34, 35, 36). The strip lines (31, 33) are electromagnetically coupled to each other to form a coupler. The strip lines (32, 34) are electromagnetically coupled to each other to form a coupler. The strip lines (31, 35) are electromagnetically coupled to each other to form a coupler. The strip lines (32, 36) are electromagnetically coupled to each other to form a coupler. The strip lines (31, 32) are connected in series to form an unbalanced line, the strip lines (33, 34) form a first balanced line, and the strip lines (35, 36) form a second balanced line. Resistors (R1, R2) are electrically connected between a first balanced terminal (23a) and a second balanced terminal (24a), and between a first balanced terminal (23b) and a second balanced terminal (24b), respectively.